


Echo-MRI analysis

RMA Rozalyn M Anderson PB Priya Balasubramanian

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 An abbreviated version of this protocol was published in eLIFE in Mar 2022

Adiponectin receptor agonist AdipoRon improves skeletal muscle function in aged mice

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Detailed protocol

EchoMRI for Body Composition analysis

This measurement is noninvasive and can be used for longitudinal assessment of body composition during the course of the treatment period. A brief protocol for using the EchoMRI™-100H instrument to measure body composition is as follows. First, remove the rodent from its cage and safely place rodent in the body composition holding tube. Insert the "plunger" into the composition holding tube as needed to prevent the animal from climbing out of the holding tube, allowing space for the rodent to comfortably exist in the holding tube. Place the composition holding tube inside of the Echo MRI Analyzer. Once the scan is completed, remove the mouse out of the tube holder. If necessary, repeat the scan for a second time for accuracy. The data for % body, fat, lean, free water, and total water of the study animals can be saved.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Anderson, R. M. and Balasubramanian, P. (2022). Echo-MRI analysis. Bio-protocol Preprint. bio-protocol.org/prep1891.
2. Balasubramanian, P., Schaar, A. E., Gustafson, G. E., Smith, A. B., Howell, P. R., Greenman, A., Baum, S., Colman, R. J., Lamming, D. W., Diffie, G. M. and Anderson, R. M. (2022). Adiponectin receptor agonist AdipoRon improves skeletal muscle function in aged mice. eLIFE. DOI: [10.7554/eLife.71282](https://doi.org/10.7554/eLife.71282)

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